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G Barequet, S Kumar - Proceedings of the 8th conference on ..., 1997 - portal.acm.org
... All unselected zero-volume solids and dangling components are saved into an **error**-file and
removed from the **model**. **...** We have experimented with the algorithm on sev- eral data files (with
many hundreds of thousand polygons) obtained from **CAD** systems. **...**
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C Erikson, D Manocha - Proceedings of the 1999 symposium on ..., 1999 - portal.acm.org
... To estimate the maximum **error** over an entire object, we take a weighted average of all **...** By applying
our technique on a number of **models**, we have found that a constant of **...** produced good results
on a variety of datasets including scanned, terrain, radiositized, and **CAD** objects. **...**
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RL Hope, PA Jacobs, RN Roth - Rapid Prototyping ..., 1997 - uat.emeraldinsight.com
... where the **CAD model** intersects the layer plane is dependent on three factors. Layer thickness,
curvature of the surface, and the angle of the radius of curvature to the layer plane. The graph
in Figure 5 shows the **error** when the plane of maximum surface curvature is **normal** to **...**
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Registration of CAD-models to images by iterative inverse perspective matching
P Wunsch, G Hirzinger - Proc. ICPR, 1996 - doi.ieeecomputersociety.org
... 5], the constant 0.6745 being one half of the inter-quantile range of the **normal** distribution. **...** for
a point located 200mm from the camera leads to a depth reconstruction **error** of 1.07 **...** We have
presented a new algorithm for registering a 3- dimensional **CAD model** to a 24imensional **...**
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[PDF] Object modeling by registration of multiple range images   zju.edu.cn [PD
Y Chen, G Medioni - Image and Vision Computing, 1992 - math.zju.edu.cn
... it is either not pos- sible or not practical to have access to such **CAD models**, and we **...** Our object
modeling system attempts to build a complete **model** for an object through the integration of **...** The
error images are computed as the distances from the surface of the first image to the **...**
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View-dependent simplification of arbitrary polygonal environments   psu.edu [PDF]
D Luebke, C Erikson - Proceedings of the 24th annual conference ..., 1997 - portal.acm.org
... This process iterates until unfolding the top node of the queue would exceed the triangle budget,
at which point the maximum **error** has been **...** In a design-review setting, **CAD** users may want to
visualize their revisions in the context of the entire **model** several times a day. **...**
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Adaptive slicing with sloping layer surfaces   psu.edu [PDF]
RL Hope, RN Roth, PA Jacobs - Rapid Prototyping Journal, 1997 - emeraldinsight.com
... measure of the **error** is the maximum distance in the layer plane between the boundary of the
original **CAD model** and the boundary of the layered part. This measure of **error** has also been
used by Novac et al. (1997) and is indicated as ε in Figure 2. When the **normal** to the **...**
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Generation of an STL file from 3D measurement data with user-controlled data ...
YH Chen, CT Ng, YZ Wang - The International Journal of Advanced ..., 1999 - Springer
... Most recent commercial **CAD**/CAM software systems are cap- able of generating STL files directly
from **...** The majority of triangulation methods are based on a known surface **model** [5, 6].
Triangulation **...** The bounded **error** E p is measured along the patch direction **normal**, that is E **...**
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... is REFAB [17] that allows an interactive specifica- tion of the types and locations of features in a mechanical part and generates the parameterizations of features to be converted into a usable **CAD model. ...** at the kth iteration, l i i i = - ¥ = a p a n p 1 6 J L 0 is the line **normal** to Fig. **...**
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[PDF] Automatic reconstruction of 3D **CAD models** from digital scans   psu.edu [PDF]
F Bernardini, CL Bajaj, J Chen, D Schikore - International Journal of ..., 1999 - Citeseer
... and the reconstruc- tion is guaranteed to be homeomorphic and **error** bounded withrespect **...** Automatically reconstructing a **CAD model** of the object from a dense and uniform sampling **...** When reconstructing a **model** representation from unorganized points, a major problem is that **...**
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